

**WEST**☐ **Generate Collection** **Print**

L4: Entry 15 of 19

File: USPT

Oct 3, 2000

US-PAT-NO: 6128624

DOCUMENT-IDENTIFIER: US 6128624 A

TITLE: Collection and integration of internet and electronic commerce data in a database during web browsing

DATE-ISSUED: October 3, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Papierniak; Karen A.	St. Paul	MN		
Thaicz; James E.	Lincoln	NE		
Chiang; Luo-Jen	Freehold	NJ		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
NCR Corporation	Dayton	OH			02

APPL-NO: 8/ 969082 [PALM]  
DATE FILED: November 12, 1997

INT-CL: [7] G06 F 17/30

US-CL-ISSUED: 707/104; 707/10, 707/102, 705/10, 705/26, 705/27  
US-CL-CURRENT: 707/104.1; 705/10, 705/26, 705/27, 707/10, 707/102FIELD-OF-SEARCH: 707/1-5, 707/100-104, 707/10, 707/200-204, 707/513, 707/501,  
707/503, 705/35, 705/37, 705/39, 705/16, 705/26, 705/27, 705/21, 705/10, 706/45,  
706/46, 706/47, 395/200.33, 395/200.48, 395/200.34, 380/9, 380/21, 380/22, 380/23,  
380/24, 380/25, 380/201, 709/217-219

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5671279	September 1997	Elgamal	380/23
<input type="checkbox"/>	5701400	December 1997	Amado	706/45
<input type="checkbox"/>	5710857	January 1998	Chelliah et al.	705/26
<input type="checkbox"/>	5729594	March 1998	Klingman	379/93.12
<input type="checkbox"/>	5809144	September 1998	Sirbu et al.	380/25
<input type="checkbox"/>	5812668	September 1998	Weber	380/24
<input type="checkbox"/>	5819092	October 1998	Ferguson et al.	395/701
<input type="checkbox"/>	5862223	January 1999	Walker et al.	380/25

OTHER PUBLICATIONS

2/20/02 6:02 AM

**WEST**☐ **Generate Collection** **Print**

L4: Entry 14 of 19

File: USPT

Nov 21, 2000

US-PAT-NO: 6151601

DOCUMENT-IDENTIFIER: US 6151601 A

TITLE: Computer architecture and method for collecting, analyzing and/or transforming internet and/or electronic commerce data for storage into a data storage area

DATE-ISSUED: November 21, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Papierniak; Karen A.	Fenton	MN		
Thaisz; James E.	Lincroft	NJ		
Diwekar; Anjali M.	Matawan	NJ		
Chiang; Luo-Jen	Freehold	NJ		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
NCR Corporation	Dayton	OH			02

APPL-NO: 8/ 968728 [PALM]  
DATE FILED: November 12, 1997

INT-CL: [7] G06 F 17/30

US-CL-ISSUED: 707/10; 707/1  
US-CL-CURRENT: 707/10; 707/1

FIELD-OF-SEARCH: 707/1, 707/2, 707/8, 707/9, 707/10, 707/102, 707/104

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5668988	September 1997	Chen et al.	707/101
<input type="checkbox"/>	5752246	May 1998	Rogers et al.	707/10
<input type="checkbox"/>	5802511	September 1998	Kouchi et al.	707/2
<input type="checkbox"/>	5825751	October 1998	Papierniak et al.	370/248
<input type="checkbox"/>	5867799	February 1999	Lang et al.	707/1

ART-UNIT: 271

PRIMARY-EXAMINER: Black; Thomas G.  
ASSISTANT-EXAMINER: Shah; Sanjiv

## ABSTRACT:

A computer system collects, analyzes and/or transforms Internet and/or electronic

2/20/02 6:02 AM

commerce data of service providers. The Internet and/or electronic commerce data includes one or more of business operational data and network operational data. The mapping system includes a database storing the Internet and/or electronic commerce data for interrogation by the CSP, and at least one computer station including data transformation and database load utilities. The computer station performs one or more of the functions: of transforming and organizing the business operational data; analyzing, and organizing the web server operational data pertaining to web page requests, accesses, and browsing into the format suitable to be loaded into said database; analyzing and organizing the Internet operational data pertaining to network sessions and accesses; correlating the network sessions, and authorization and application access data to customers; creating directories of applications; translating raw system data pertaining to Internet and/or electronic commerce applications into a business context; and correlating the business operational data and the network operational data into one or more datasets.

31 Claims, 23 Drawing figures

**WEST**☐  

L4: Entry 18 of 19

File: USPT

Feb 9, 1999

US-PAT-NO: 5870746

DOCUMENT-IDENTIFIER: US 5870746 A

TITLE: System and method for segmenting a database based upon data attributes

DATE-ISSUED: February 9, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knutson; James F.	Roswell	GA		
Anand; Tejawansh S.	Roswell	GA		
Taneri; Sheila	Decatur	GA		
Coulter; Scott D.	Marietta	GA		
Copas; Kevin W.	Lawrenceville	GA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
NCR Corporation	Dayton	OH			02

APPL-NO: 8/ 742007 [PALM]  
DATE FILED: October 31, 1996

PARENT-CASE:  
CROSS-REFERENCE TO RELATED APPLICATIONS This patent application is a continuation-in-part of U.S. patent application Ser. No. 08/542,266, filed Oct. 12, 1995, and entitled "System and Method For Generating Reports From a Computer Database", now abandoned. This patent application is also related to co-pending U.S. patent application Ser. No. 08/742,006, filed Oct. 31, 1996, and entitled "System And Method For Performing Intelligent Analysis Of A Computer Database", now U.S. Pat. No. 5,832,496, and Ser. No. 08/742,003, filed Oct. 31, 1996, and entitled "Hypertext Markup Language (HTML) Extensions For Graphical Reporting Over An Internet" now U.S. Pat. No. 5,748,188.

INT-CL: [6] G06 F 17/30US-CL-ISSUED: 707/101; 707/10  
US-CL-CURRENT: 707/101; 707/10

FIELD-OF-SEARCH: 707/1-5, 707/10, 1/100-102

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

## Record Display Form

	PAT-NO	ISS DATE	PATENTEE-NAM	US-CL
<input type="checkbox"/>	<u>4318184</u>	March 1982	Millett et al.	707/1
<input type="checkbox"/>	<u>4868743</u>	September 1989	Nishio	707/3
<input type="checkbox"/>	<u>5088052</u>	February 1992	Spielman et al.	395/158
<input type="checkbox"/>	<u>5404506</u>	April 1995	Fujisawa et al.	395/600
<input type="checkbox"/>	<u>5414838</u>	May 1995	Kolton et al.	395/600
<input type="checkbox"/>	<u>5455945</u>	October 1995	VanderDrift	395/600
<input type="checkbox"/>	<u>5471611</u>	November 1995	McGregor	395/600
<input type="checkbox"/>	<u>5537590</u>	July 1996	Amado	395/600
<input type="checkbox"/>	<u>5544298</u>	August 1996	Kanavy et al.	395/155
<input type="checkbox"/>	<u>5546529</u>	August 1996	Bowers et al.	345/358
<input type="checkbox"/>	<u>5644740</u>	July 1997	Kiuchi	345/357

## OTHER PUBLICATIONS

Korth and Silberschatz: "Database System Concepts" 2/E, McGraw-Hill Inc., 1991, pp. 97-98.

ART-UNIT: 271

PRIMARY-EXAMINER: Von Buhr; Maria N.

ATTY-AGENT-FIRM: Needle & Rosenberg Priest; Peter H.

## ABSTRACT:

A system and method for allowing a user to segment and partition a database based upon attributes associated with the data in the database. Also, a system and method for generating a report for a user which allows the user to make decisions, without requiring the user to understand or interpret data itself. A database computer includes a database containing the data. The data includes a collection of information about an enterprise of the user. A server computer is coupled to the database computer and executes a database management program. A client computer is coupled to the server and executes an application program. The application program allows a user to define predetermined data types, to define relationships between the data types, to define parameters for the report, to define a method of analysis for the report, and to create the report. The report summarizes the data in terms of the data types, the data relationships, and the method of analysis.

10 Claims, 36 Drawing figures